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1910 Fifth Street Suite F.
Davis California 95616(US)**(72) Inventor: **Shewmaker, Christine K.
1501 Cypress Lane
Davis, California 95616(US)
Inventor: Kridl, Jean C.
538 Reed Drive
Davis, California 95616(US)
Inventor: Hiatt, William R.
2760 Blackburn
Davis, California 95616(US)
Inventor: Knauf, Vic
2454 Elendil Lane
Davis, California 95616(US)**(74) Representative: **Harrison, David Christopher
et al
MEWBURN ELLIS & CO 2/3 Cursitor Street
London EC4A 1BQ(GB)**(54) **Anti-sense regulation of gene expression in plant cells.**

(57) Regulation of expression of genes encoded for in plant cell genomes is achieved by integration of a gene under the transcriptional control of a promoter which is functional in the host and in which the transcribed strand of DNA is complementary to the strand of DNA that is transcribed from the endogenous gene(s) one wishes to regulate. The integrated gene, referred to as anti-sense, provides an RNA sequence capable of binding to naturally existing RNAs, exemplified by polygalacturonase, and inhibiting their expression, where the anti-sense sequence may bind to the coding, non-coding, or both, portions of the RNA. The anti-sense construction may be introduced into the plant cells in a variety of ways and be integrated into the plant genome for inducible or constitutive transcription of the anti-sense sequence. A wide variety of plant cell properties may be modified by employing this technique.

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Place of search THE HAGUE		Date of completion of the search 20-01-1989	Examiner MADDOX A.D.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	



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